

L1 619 S (TUMER, N? OR TUMER N?)/AU
 L2 270 S (LEUSTEK, T? OR LEUSTEK T?)/AU
 L3 3 S L1 AND L2
 L4 2 DUPLICATE REMOVE L3 (1 DUPLICATE REMOVED)
 L5 886 S L1 OR L2
 L6 883 S L5 NOT L3
 L7 522 S CYSTATHIONINE(W) GAMMA(W) SYNTHASE
 L8 2 S L4 AND L7
 L9 34 S L6 AND L7
 L10 12 DUPLICATE REMOVE L9 (22 DUPLICATES REMOVED)
 L11 280 S L7 AND (DNA OR CDNA OR GENE)
 L12 9 S L11 AND (SELECTION OR SELECTABLE(W) MARKER) AND ETHIONINE
 L13 9 DUPLICATE REMOVE L12 (0 DUPLICATES REMOVED)
 L14 9 S L13 NOT L9
 L15 8 S L13 NOT L3
 L16 362 S ETHIONINE AND PLANT
 L17 138 S L16 AND CELL
 L18 48 S L17 AND TOXI?
 L19 24 S L18 AND CELL(W) CULTURE
 L20 23 S L19 NOT L13
 L21 23 S L20 NOT L9
 L22 23 S L21 NOT L3
 L23 23 DUPLICATE REMOVE L22 (0 DUPLICATES REMOVED)

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

72.42

72.63

STN INTERNATIONAL LOGOFF AT 14:36:58 ON 23 SEP 2003

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal600cxc

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
 NEWS 2 "Ask CAS" for self-help around the clock
 NEWS 3 JAN 27 Source of Registration (SR) information in REGISTRY updated
 and searchable
 NEWS 4 JAN 27 A new search aid, the Company Name Thesaurus, available in
 CA/Caplus
 NEWS 5 FEB 05 German (DE) application and patent publication number format
 changes
 NEWS 6 MAR 03 MEDLINE and LMEDLINE reloaded
 NEWS 7 MAR 03 MEDLINE file segment of TOXCENTER reloaded
 NEWS 8 MAR 03 FRANCEPAT now available on STN
 NEWS 9 MAR 29 Pharmaceutical Substances (PS) now available on STN
 NEWS 10 MAR 29 WPIFV now available on STN
 NEWS 11 MAR 29 New monthly current-awareness alert (SDI) frequency in RAPRA
 NEWS 12 APR 26 PROMT: New display field available

NEWS 13 APR 26 IFIPAT/IFIUDB/IFICDB: New super search and display field available

NEWS 14 APR 26 LITALERT now available on STN

NEWS 15 APR 27 NLDB: New search and display fields available

NEWS 16 May 10 PROUSDDR now available on STN

NEWS 17 May 19 PROUSDDR: One FREE connect hour, per account, in both May and June 2004

NEWS 18 May 12 EXTEND option available in structure searching

NEWS 19 May 12 Polymer links for the POLYLINK command completed in REGISTRY

NEWS 20 May 17 FRFULL now available on STN

NEWS 21 May 27 STN User Update to be held June 7 and June 8 at the SLA 2004 Conference

NEWS 22 May 27 New UPM (Update Code Maximum) field for more efficient patent SDIs in CPlus

NEWS 23 May 27 CPlus super roles and document types searchable in REGISTRY

NEWS 24 May 27 Explore APOLLIT with free connect time in June 2004

NEWS EXPRESS MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004

NEWS HOURS STN Operating Hours Plus Help Desk Availability

NEWS INTER General Internet Information

NEWS LOGIN Welcome Banner and News Items

NEWS PHONE Direct Dial and Telecommunication Network Access to STN

NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 18:06:46 ON 16 JUN 2004

=> file medline, agricola, caba, caplus, biosis, biotechno		
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'MEDLINE' ENTERED AT 18:06:54 ON 16 JUN 2004

FILE 'AGRICOLA' ENTERED AT 18:06:54 ON 16 JUN 2004

FILE 'CABA' ENTERED AT 18:06:54 ON 16 JUN 2004
COPYRIGHT (C) 2004 CAB INTERNATIONAL (CABI)

FILE 'CAPLUS' ENTERED AT 18:06:54 ON 16 JUN 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'BIOSIS' ENTERED AT 18:06:54 ON 16 JUN 2004
COPYRIGHT (C) 2004 BIOLOGICAL ABSTRACTS INC.(R)

FILE 'BIOTECHNO' ENTERED AT 18:06:54 ON 16 JUN 2004
COPYRIGHT (C) 2004 Elsevier Science B.V., Amsterdam. All rights reserved.

=> s plant and ethionine
L1 293 PLANT AND ETHIONINE

=> duplicate remove l1

DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'

KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L1

L2 220 DUPLICATE REMOVE L1 (73 DUPLICATES REMOVED)

=> s l2 and (cells or tissue)

L3 87 L2 AND (CELLS OR TISSUE)

=> s l2 and resistan?

L4 62 L2 AND RESISTAN?

=> d l4 1-10 ti

L4 ANSWER 1 OF 62 MEDLINE on STN

TI A single-nucleotide mutation in a gene encoding S-adenosylmethionine synthetase is associated with methionine over-accumulation phenotype in *Arabidopsis thaliana*.

L4 ANSWER 2 OF 62 MEDLINE on STN

TI High free-methionine and decreased lignin content result from a mutation in the *Arabidopsis* S-adenosyl-L-methionine synthetase 3 gene.

L4 ANSWER 3 OF 62 MEDLINE on STN

TI Constitutive overexpression of cystathionine gamma-synthase in *Arabidopsis* leads to accumulation of soluble methionine and S-methylmethionine.

L4 ANSWER 4 OF 62 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN

TI Seeking improved nutritional properties for the potato: **ethionine** -**resistant** protoclones.

L4 ANSWER 5 OF 62 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN

TI Isolation of an *Arabidopsis thaliana* mutant, *mtol*, that overaccumulates soluble methionine. Temporal and spatial patterns of soluble methionine accumulation.

L4 ANSWER 6 OF 62 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN

TI Variability among plants from **ethionine resistant** alfalfa tissue cultures *Medicago sativa*, diploids, tetraploids. **Plant** tissue culture 1982 : proceedings, 5th International Congress of **Plant** Tissue and Cell Culture held at Tokyo and Lake Yamanake, Japan, July 11-16, 1982 / edited by Akio Fujiwara.

L4 ANSWER 7 OF 62 CABA COPYRIGHT 2004 CABI on STN

TI Selection of methionine-**resistant** variant in *Onobrychis viciaefolia* Scop.

L4 ANSWER 8 OF 62 CABA COPYRIGHT 2004 CABI on STN

TI Breeding value of forms of lucerne (*Medicago sativa* L.) produced by the in vitro method.

L4 ANSWER 9 OF 62 CABA COPYRIGHT 2004 CABI on STN

TI Response of *Zea mays* and *Lycopersicon esculentum* to the ethylene precursors, L-methionine and L-**ethionine** applied to soil.

L4 ANSWER 10 OF 62 CABA COPYRIGHT 2004 CABI on STN

TI Isolation and analysis of lucerne cell lines **resistant** to analogues of methionine and proline, and regenerates from them.

=> d 14 4,6,7,10 bib

L4 ANSWER 4 OF 62 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.
(2004) on STN

AN 1999:16520 AGRICOLA

DN IND21967725

TI Seeking improved nutritional properties for the potato: **ethionine** -**resistant** protoclones.

AU Langille, A.R.; Lan, Y.; Gustine, D.L.

CS University of Maine, Orono, ME.

AV DNAL (SB211.P8A447)

SO American journal of potato research : an official publication of the Potato Association of America, Sept/Oct 1998. Vol. 75, No. 5. p. 201-205
Publisher: Orono, Me : The Potato Association of America.
CODEN: AJPRFQ; ISSN: 1099-209X

NTE Includes references

CY Maine; United States

DT Article

FS U.S. Imprints not USDA, Experiment or Extension

LA English

SL Spanish

L4 ANSWER 6 OF 62 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.
(2004) on STN

AN 83:140878 AGRICOLA

DN IND83116827

TI Variability among plants from **ethionine resistant** alfalfa tissue cultures Medicago sativa, diploids, tetraploids.
Plant tissue culture 1982 : proceedings, 5th International Congress of **Plant** Tissue and Cell Culture held at Tokyo and Lake Yamanake, Japan, July 11-16, 1982 / edited by Akio Fujiwara.

AU Reisch, B.

AV DNAL (QK725.I49 1982)

SO Plant Tissue Cult 1982, 1982? p. 415-416

Publisher: Tokyo : Japanese Association for Plant Tissue Culture, 1982?.

NTE Includes references.

DT Article

FS Non-U.S. Imprint other than FAO

LA English

L4 ANSWER 7 OF 62 CABA COPYRIGHT 2004 CABI on STN

AN 97:90861 CABA

DN 19971606865

TI Selection of methionine-**resistant** variant in Onobrychis viciaefolia Scop

AU Zhao Zhong; Jia JingFen; Zhao, Z.; Jia, J. F.

CS Cell Biology Laboratory, Lanzhou University, Lanzhou 730000, Gansu, China.

SO Acta Botanica Sinica, (1996) Vol. 38, No. 4, pp. 268-275. 18 ref.
ISSN: 0577-7496

DT Journal

LA Chinese

SL English

ED Entered STN: 19970815

Last Updated on STN: 19970815

L4 ANSWER 10 OF 62 CABA COPYRIGHT 2004 CABI on STN

AN 90:6973 CABA

DN 19901695089
 TI Isolation and analysis of lucerne cell lines **resistant** to
 analogues of methionine and proline, and regenerates from them
 AU Novozhilov, O. V.; Levenko, B. A.; Butenko, R. G. [EDITOR]
 CS Institut Fiziologii Rastenii i Genetiki, Kiev, Ukrainian SSR.
 SO Biologiya kul'tiviruemykh kletok i biotekhnologiya, 1, (1988) pp. 176-177.
 Novosibirsk
 Price: Conference paper; Abstract only .
 Meeting Info.: Biologiya kul'tiviruemykh kletok i biotekhnologiya, 1.
 CY USSR
 DT Journal
 LA Russian
 ED Entered STN: 19941101
 Last Updated on STN: 19941101

=> d l4 11-20 ti

L4 ANSWER 11 OF 62 CABA COPYRIGHT 2004 CABI on STN
 TI DNA methylation of embryogenic carrot cell cultures and its variations as
 caused by mutation, differentiation, hormones and hypomethylating drugs.

 L4 ANSWER 12 OF 62 CABA COPYRIGHT 2004 CABI on STN
 TI Selection and characterization of methionine and tryptophan analog
resistant asparagus cells.

 L4 ANSWER 13 OF 62 CABA COPYRIGHT 2004 CABI on STN
 TI Soybeans and radish leaves contain only one of the sulfonium
 diastereoisomers of S-adenosylmethionine.

 L4 ANSWER 14 OF 62 CABA COPYRIGHT 2004 CABI on STN
 TI Altered amino acid biosynthesis in amino acid analog and herbicide-
resistant cells.

 L4 ANSWER 15 OF 62 CABA COPYRIGHT 2004 CABI on STN
 TI Characterization of cultured tobacco cell lines **resistant** to
ethionine, a methionine analog.

 L4 ANSWER 16 OF 62 CABA COPYRIGHT 2004 CABI on STN
 TI Regeneration of wheat, rye and triticale plants through tissue culture.

 L4 ANSWER 17 OF 62 CABA COPYRIGHT 2004 CABI on STN
 TI Selection and analysis of mutants over-producing amino acids of the
 aspartate family in barley, Arabidopsis and carrot.

 L4 ANSWER 18 OF 62 CABA COPYRIGHT 2004 CABI on STN
 TI Development of selection strategies for the isolation of methionine
 accumulating cell lines in Solanum tuberosum L.

 L4 ANSWER 19 OF 62 CABA COPYRIGHT 2004 CABI on STN
 TI Development of somatic cell genetics systems in Vigna radiata and
 Phaseolus vulgaris.

 L4 ANSWER 20 OF 62 CABA COPYRIGHT 2004 CABI on STN
 TI The selection and regeneration of **ethionine resistant**
 alfalfa cell lines and the genetic control of regeneration from alfalfa
 callus cultures.

=> d l4 11,12,14,15,17,18,19,20 bib

L4 ANSWER 11 OF 62 CABA COPYRIGHT 2004 CABI on STN
 AN 89:48527 CABA
 DN 19891604726
 TI DNA methylation of embryogenic carrot cell cultures and its variations as

caused by mutation, differentiation, hormones and hypomethylating drugs
AU LoSchiavo, F.; Pitto, L.; Giuliano, G.; Torti, G.; Nuti-Ronchi, V.;
Marazziti, D.; Vergara, R.; Orselli, S.; Terzi, M.
CS Istituto Internat. di Genet. e Biofisica, CNR, CP 3061, 80100 Napoli,
Italy.
SO Theoretical and Applied Genetics, (1989) Vol. 77, No. 3, pp. 325-331. 15
ref.
ISSN: 0040-5752
DT Journal
LA English
ED Entered STN: 19941101
Last Updated on STN: 19941101

L4 ANSWER 12 OF 62 CABA COPYRIGHT 2004 CABI on STN
AN 87:93315 CABA
DN 19871665342
TI Selection and characterization of methionine and tryptophan analog
resistant asparagus cells
AU Curtiss, C. D.; Widholm, J. M.; Gonzales, R. A.
CS Dep. Agron., Univ. Illinois, Urbana, IL 61801, USA.
SO Journal of Plant Physiology, (1987) Vol. 130, No. 2-3, pp. 125-135. 36
ref.
ISSN: 0176-1617
DT Journal
LA English
ED Entered STN: 19941101
Last Updated on STN: 19941101

L4 ANSWER 14 OF 62 CABA COPYRIGHT 2004 CABI on STN
AN 86:88087 CABA
DN 19860791953
TI Altered amino acid biosynthesis in amino acid analog and herbicide-
resistant cells
AU Gonzales, R. A.; Widholm, J. M.; Neumann, K.H. [EDITOR]; Barz, W.
[EDITOR]; Reinhard, E. [EDITOR]
CS Samuel Roberts Noble Foundation, Ardmore, OK 73402, USA.
SO Primary and secondary metabolism of plant cell cultures, (1985) pp.
337-343. 25 ref.
Publisher: Springer-Verlag. Heidelberg
Meeting Info.: Primary and secondary metabolism of plant cell cultures.
CY German Federal Republic
DT Conference Article
LA English
ED Entered STN: 19941101
Last Updated on STN: 19941101

L4 ANSWER 15 OF 62 CABA COPYRIGHT 2004 CABI on STN
AN 84:138948 CABA
DN 19840768199
TI Characterization of cultured tobacco cell lines **resistant** to
ethionine, a methionine analog
AU Gonzales, R. A.; Das, P. K.; Widholm, J. M.
CS Dep. of Agron., Illinois Univ., Urbana, IL 61801, USA.
SO Plant Physiology, (1984) Vol. 74, No. 3, pp. 640-644. 23 ref.
ISSN: 0032-0889
DT Journal
LA English
ED Entered STN: 19941101
Last Updated on STN: 19941101

L4 ANSWER 17 OF 62 CABA COPYRIGHT 2004 CABI on STN
AN 83:88061 CABA
DN 19831619488
TI Selection and analysis of mutants over-producing amino acids of the
aspartate family in barley, Arabidopsis and carrot

L4 ANSWER 22 OF 62 CABA COPYRIGHT 2004 CABI on STN
 TI Selection of amino-acid analogue **resistant** corn cell lines.

L4 ANSWER 23 OF 62 CABA COPYRIGHT 2004 CABI on STN
 TI Selection and characterization of a *Daucus carota* L. cell line **resistant** to four amino acid analogues.

L4 ANSWER 24 OF 62 CABA COPYRIGHT 2004 CABI on STN
 TI Session 2B. Mode of action, selectivity and tolerance - fungicides.

L4 ANSWER 25 OF 62 CABA COPYRIGHT 2004 CABI on STN
 TI Effect of blasticidin S, **ethionine**, and polyoxin D on stem rust development and host-cell necrosis in wheat near-isogenic for gene Sr6.

L4 ANSWER 26 OF 62 CABA COPYRIGHT 2004 CABI on STN
 TI Inhibition of corn, soybean, and wheat seedling growth by amino acid analogs.

L4 ANSWER 27 OF 62 CABA COPYRIGHT 2004 CABI on STN
 TI Inhibition of germination and infection structure formation of *Puccinia coronata* uredospores by **plant** growth regulators and antimetabolites.

L4 ANSWER 28 OF 62 CABA COPYRIGHT 2004 CABI on STN
 TI Effect of amino acids on development of *Fusarium* wilt of **resistant** and susceptible tomato cultivars.

L4 ANSWER 29 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Methods to identify evolutionarily significant changes in polynucleotide and polypeptide sequences in domesticated plants and animals

L4 ANSWER 30 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Methods to identify evolutionarily significant changes in polynucleotide and polypeptide sequences in domesticated plants and their use in breeding programs

=> d 14 21-23 bib

L4 ANSWER 21 OF 62 CABA COPYRIGHT 2004 CABI on STN
 AN 81:88510 CABA
 DN 19811603388
 TI Selection and characterization of **ethionine-resistant** alfalfa (*Medicago sativa* L.) cell lines
 AU Reish, B.; Duke, S. H.; Bingham, E. T.
 CS Agron. Dep., Wis. Univ., Madison, USA.
 SO Theoretical and Applied Genetics, (1981) Vol. 59, No. 2, pp. 89-94. 23 ref.
 ISSN: 0040-5752
 DT Journal
 LA English
 ED Entered STN: 19941101
 Last Updated on STN: 19941101

L4 ANSWER 22 OF 62 CABA COPYRIGHT 2004 CABI on STN
 AN 80:87393 CABA
 DN 19791679129
 TI Selection of amino-acid analogue **resistant** corn cell lines
 AU Strauss, A.; King, P. J.
 CS Friedrich Miescher Inst., Basel, Switzerland.
 SO Maize Genetics Cooperation News Letter, (1979) No. 53, pp. 14.
 DT Journal
 LA English
 ED Entered STN: 19941101
 Last Updated on STN: 19941101

AU Cattoir-Reynaerts, A.; Degryse, E.; Jacobs, M.
 CS Laboratorium voor Plantengenetica, Vrije Universiteit Brussel,
 Saint-Genesius-Rode, Belgium.
 SO Induced mutations -- a tool in plant research. Proceedings of an
 international symposium. Vienna, 9-13 March 1981, (1981) pp. 353-361. 20
 ref.
 Publisher: IAEA. Vienna
 Meeting Info.: Induced mutations -- a tool in plant research. Proceedings
 of an international symposium. Vienna, 9-13 March 1981.
 CY Austria
 DT Conference Article
 LA English
 ED Entered STN: 19941101
 Last Updated on STN: 19941101

L4 ANSWER 18 OF 62 CABA COPYRIGHT 2004 CABI on STN
 AN 83:85847 CABA
 DN 19821616592
 TI Development of selection strategies for the isolation of methionine
 accumulating cell lines in Solanum tuberosum L
 AU Hunsperger, J. P.
 CS Mich. State Univ., East Lansing, USA.
 SO Dissertation Abstracts International, B, (1982) Vol. 43, No. 2, pp. 339B.
 Order No: DA8216555.
 DT Abstract
 LA English
 ED Entered STN: 19941101
 Last Updated on STN: 19941101

L4 ANSWER 19 OF 62 CABA COPYRIGHT 2004 CABI on STN
 AN 83:85843 CABA
 DN 19821616588
 TI Development of somatic cell genetics systems in Vigna radiata and
 Phaseolus vulgaris
 AU Jacobs, T. W.
 CS Mich. State Univ., East Lansing, USA.
 SO Dissertation Abstracts International, B, (1982) Vol. 43, No. 2, pp. 307B.
 Order No: DA8216557.
 DT Abstract
 LA English
 ED Entered STN: 19941101
 Last Updated on STN: 19941101

L4 ANSWER 20 OF 62 CABA COPYRIGHT 2004 CABI on STN
 AN 82:88770 CABA
 DN 19811604773
 TI The selection and regeneration of **ethionine resistant**
 alfalfa cell lines and the genetic control of regeneration from alfalfa
 callus cultures
 AU Reisch, B. I.
 CS Wis. Univ., Madison, USA.
 SO Dissertation Abstracts International, B, (1981) Vol. 41, No. 9, pp. 3266B.
 Order No: 8025845.
 DT Abstract
 LA English
 ED Entered STN: 19941101
 Last Updated on STN: 19941101

=> d l4 21-30 ti

L4 ANSWER 21 OF 62 CABA COPYRIGHT 2004 CABI on STN
 TI Selection and characterization of **ethionine-resistant**
 alfalfa (Medicago sativa L.) cell lines.

L4 ANSWER 23 OF 62 CABA COPYRIGHT 2004 CABI on STN
AN 79:87236 CABA
DN 19791679216
TI Selection and characterization of a *Daucus carota* L. cell line
resistant to four amino acid analogues
AU Widholm, J. M.
CS Dep. Agron., Ill. Univ., Urbana, USA.
SO Journal of Experimental Botany, (1978) Vol. 29, No. 112, pp. 1111-1116. 8
ref.
ISSN: 0022-0957
DT Journal
LA English
ED Entered STN: 19941101
Last Updated on STN: 19941101

=> d 14 31-40 ti

L4 ANSWER 31 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN
TI Selection and characterization of cultured alfalfa calluses
resistant to **ethionine**

L4 ANSWER 32 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN
TI Selection of **ethionine-resistant** variant cell line in
alfalfa (*Medicago sativa* L.) and study of its characteristics

L4 ANSWER 33 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN
TI Transgenic plants having improved flavor properties by increasing free
methionone levels

L4 ANSWER 34 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN
TI Selection of **ethionine-resistant** variant cell line in
alfalfa A00: A **L-ethionine-resistant** variant cell line
(MERB) was isolated from the calluses induced from inflorescence explants
of alfalfa (*Medicago sativa* L.) germinated from seeds treated with space
conditions.

L4 ANSWER 35 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN
TI Selection of methionine-**resistant** variant of *Medicago sativa*

L4 ANSWER 36 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN
TI Prospects of the application of biotechnological methods in selection of
the sugarcane *Saccharum officinarum* L. **resistant** to hypoxia

L4 ANSWER 37 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN
TI Association between partial **resistance** to S-(2-aminoethyl)L-
cysteine and increased methionine levels in inbred lines of rye

L4 ANSWER 38 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN
TI Effects of some stress factors on cell culture and seedlings of rice

L4 ANSWER 39 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN
TI Selection of alfalfa clones **resistant** to analogs of amino acids
and streptomycin

L4 ANSWER 40 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN
TI Biochemical aspect of varietal **resistance** to rice green
leafhoppers, *Nephotettix virescens* (Distant) and *Nephotettix nigropictus*
(Staal)

=> d 14 31-35,39 bib

L4 ANSWER 31 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:804899 CAPLUS
 DN 136:291865
 TI Selection and characterization of cultured alfalfa calluses
resistant to ethionine
 AU Xu, Yunyuan; Jia, Jingfen
 CS Institute of Botany, Chinese Academy of Sciences, Beijing, 100093, Peop.
 Rep. China
 SO Zhiwu Shengli Xuebao (2001), 27(1), 49-54
 CODEN: CWSPDA; ISSN: 0257-4829
 PB Kexue Chubanshe
 DT Journal
 LA Chinese

L4 ANSWER 32 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:767164 CAPLUS
 DN 134:190747
 TI Selection of **ethionine-resistant** variant cell line in
 alfalfa (Medicago sativa L.) and study of its characteristics
 AU Wang, Ming-gang; Li, Wu-xing; Chen, Xi; Chen, Mu-chuan
 CS Key Lab. of the Mini of Edu. Cell Biol. and Tumor Cell Eng., Xiamen Univ.,
 Xiamen, 361005, Peop. Rep. China
 SO Xiamen Daxue Xuebao, Ziran Kexueban (2000), 39(5), 686-692
 CODEN: HMMHAF; ISSN: 0438-0479
 PB Xiamen Daxue
 DT Journal
 LA Chinese

L4 ANSWER 33 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:666857 CAPLUS
 DN 133:235372
 TI Transgenic plants having improved flavor properties by increasing free
 methionone levels
 IN Tumer, Nilgun E.; Leustek, Thomas
 PA Rutgers, the State University of New Jersey, USA
 SO PCT Int. Appl., 30 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	WO 2000055303	A2	20000921	WO 2000-US7330	20000320
	W:				
	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,				
	CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,				
	IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,				
	MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,				
	SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,				
	AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,				
	DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,				
	CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 1999-124961P	P	19990318		
	US 1999-125654P	P	19990322		

L4 ANSWER 34 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:579733 CAPLUS
 DN 134:113130
 TI Selection of **ethionine-resistant** variant cell line in
 alfalfa A00: A **L-ethionine-resistant** variant cell line
 (MErB) was isolated from the calluses induced from inflorescence explants
 of alfalfa (Medicago sativa L.) germinated from seeds treated with space
 conditions.
 AU Li, Wuxing; Wang, Minggang; Chen, Xi; Jia, Jingfen
 CS College of Life Science, Lanzhou University, Lanzhou, 730000, Peop. Rep.
 China

SO Lanzhou Daxue Xuebao, Ziran Kexueban (2000), 36(3), 140-146
CODEN: LCTHAF; ISSN: 0455-2059
PB Lanzhou Daxue
DT Journal
LA Chinese

L4 ANSWER 35 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1998:660630 CAPLUS
DN 130:92888
TI Selection of methionine-**resistant** variant of Medicago sativa
AU Zhao, Zhong; Jia, Jingfen
CS Wuxi University of Light Industry, Wuxi, 214036, Peop. Rep. China
SO Zhiwu Xuebao (1997), 39(10), 933-939
CODEN: CHWHAY; ISSN: 0577-7496
PB Kexue Chubanshe
DT Journal
LA English

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 39 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1991:579542 CAPLUS
DN 115:179542
TI Selection of alfalfa clones **resistant** to analogs of amino acids
and streptomycin
AU Vlahkova, M.; Atanasov, A.
CS Inst. Genet. Eng., Kostinbrod, 2232, Bulg.
SO Genetika i Selektsiya (1990), 23(6), 517-24
CODEN: GESKAC; ISSN: 0016-6766
DT Journal
LA Bulgarian

=> d his

(FILE 'HOME' ENTERED AT 18:06:46 ON 16 JUN 2004)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT
18:06:54 ON 16 JUN 2004

L1 293 S PLANT AND ETHIONINE
L2 220 DUPLICATE REMOVE L1 (73 DUPLICATES REMOVED)
L3 87 S L2 AND (CELLS OR TISSUE)
L4 62 S L2 AND RESISTAN?

=> s cystathionine(s)synthase and ethionine
L5 38 CYSTATHIONINE(S) SYNTHASE AND ETHIONINE

=> duplicate remove l5
DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L5
L6 16 DUPLICATE REMOVE L5 (22 DUPLICATES REMOVED)

=> d l6 1-10 ti

L6 ANSWER 1 OF 16 MEDLINE on STN DUPLICATE 1
TI S-adenosyl-L-methionine is an effector in the posttranscriptional
autoregulation of the **cystathionine gamma-synthase**
gene in Arabidopsis.

L6 ANSWER 2 OF 16 MEDLINE on STN DUPLICATE 2
TI Enhancement of the primary flavor compound methional in potato by
increasing the level of soluble methionine.

L6 ANSWER 3 OF 16 MEDLINE on STN

TI Identification of a short highly conserved amino acid sequence as the functional region required for posttranscriptional autoregulation of the **cystathionine gamma-synthase** gene in Arabidopsis.

L6 ANSWER 4 OF 16 MEDLINE on STN DUPLICATE 3

TI Constitutive overexpression of **cystathionine gamma-synthase** in Arabidopsis leads to accumulation of soluble methionine and S-methylmethionine.

L6 ANSWER 5 OF 16 MEDLINE on STN DUPLICATE 4

TI A single-nucleotide mutation in a gene encoding S-adenosylmethionine synthetase is associated with methionine over-accumulation phenotype in Arabidopsis thaliana.

L6 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

TI Transgenic plants having improved flavor properties by increasing free methionone levels

L6 ANSWER 7 OF 16 MEDLINE on STN DUPLICATE 5

TI Folate-deficiency-induced homocysteinaemia in rats: disruption of S-adenosylmethionine's co-ordinate regulation of homocysteine metabolism.

L6 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

TI Folate-deficiency-induced homocysteinemia in rats: disruption of S-adenosylmethionine's coordinate regulation of homocysteine metabolism

L6 ANSWER 9 OF 16 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN

TI Disruption of thymidylate synthesis and glycine-serine interconversion by L-methionine and L-homocystine in Raji cells

L6 ANSWER 10 OF 16 MEDLINE on STN

TI Effect of trypsin, S-adenosylmethionine and **ethionine** on L-serine sulphydrase activity.

=> d 16 11-16 ti

L6 ANSWER 11 OF 16 MEDLINE on STN

TI Genetic characterization of the metK locus in Escherichia coli K-12.

L6 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

TI Fermentation production of L-methionine and regulation of L-methionine biosynthesis in Corynebacterium glutamicum. III. L-Methionine production by methionine analog-resistant mutants of Corynebacterium glutamicum

L6 ANSWER 13 OF 16 MEDLINE on STN DUPLICATE 6

TI Activation of **cystathionine synthase** by adenosylmethionine and adenosylethionine.

L6 ANSWER 14 OF 16 MEDLINE on STN DUPLICATE 7

TI Increase in **cystathionine beta-synthase** activity in the liver of rats treated with L-**ethionine**.

L6 ANSWER 15 OF 16 MEDLINE on STN DUPLICATE 8

TI The regulation of methionine synthesis and the nature of **cystathionine gamma-synthase** in Neurospora.

L6 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

TI Inhibition of **cystathionine gamma-synthase** by S-adenosylmethionine: control mechanism for methionine synthesis in Neurospora

=> d his

(FILE 'HOME' ENTERED AT 18:06:46 ON 16 JUN 2004)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT
18:06:54 ON 16 JUN 2004

L1 293 S PLANT AND ETHIONINE
L2 220 DUPLICATE REMOVE L1 (73 DUPLICATES REMOVED)
L3 87 S L2 AND (CELLS OR TISSUE)
L4 62 S L2 AND RESISTAN?
L5 38 S CYSTATHIONINE(S) SYNTHASE AND ETHIONINE
L6 16 DUPLICATE REMOVE L5 (22 DUPLICATES REMOVED)

=> file uspatfull

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	55.40	55.61

FILE 'USPATFULL' ENTERED AT 18:19:16 ON 16 JUN 2004

CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 15 Jun 2004 (20040615/PD)

FILE LAST UPDATED: 15 Jun 2004 (20040615/ED)

HIGHEST GRANTED PATENT NUMBER: US6751803

HIGHEST APPLICATION PUBLICATION NUMBER: US2004111778

CA INDEXING IS CURRENT THROUGH 15 Jun 2004 (20040615/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 15 Jun 2004 (20040615/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2004

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2004

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<
>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<
>>> enter this cluster. <<<
>>> <<<
>>> Use USPATALL when searching terms such as patent assignees, <<<
>>> classifications, or claims, that may potentially change from <<<
>>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate
substance identification.

<-----User Break----->

<-----User Break----->

<-----User Break----->

Connecting via Winsock to STN

Welcome to STN International! Enter x:x